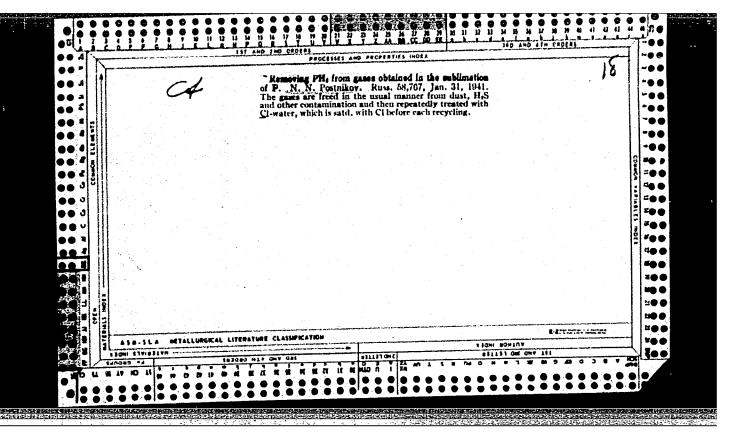


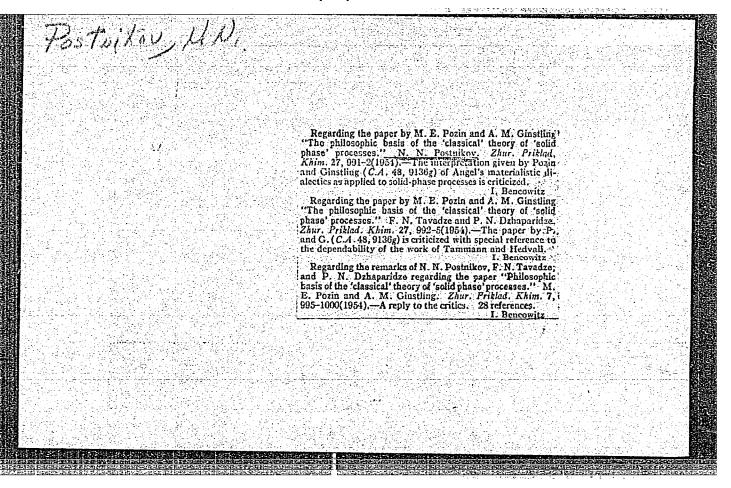
POSTNIKOV, N. N.

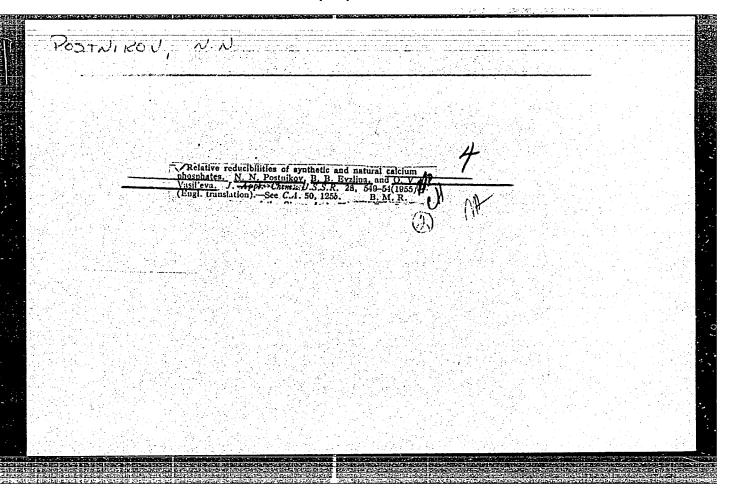
"Removing PH, from Gases obtained in the Sublimation of P," N. N. Postnikov,
Pat 57, h39 (USSR), 31, July 19h0 (SEE: Inst. Insect/Fungi. im Ya. V. Samoylov)

S0: U-237/h9, 8 April 19h9



Post Nikou,	(Y - N) -	4	
	Regarding the paper by M. B. Pozin "The philosophic basis of the classic phase processes." N. N. Postnikov U.S.S.R. 27, 927-8(1954) (Engl. tran	and A. M. Ginstling al' theory of Solid i, J. Appl. Chem. islation).—See C.A. B. M. R.	
		Cunjeg	





VesiNikov, N.N.

Subject

: USSR/Chemistry

Card 1/1

Pub. 152 - 3/21

Authors

: Postnikov, N. N., B. B. Yevzlina, and O. V. Vasil'yeva ALL BELLEVIEW AND WASHINGTON TO THE PARTY OF THE PARTY OF

AID P - 3488

Title

Comparative reducibility of synthetic and natural

calcium phosphates

Periodical

: Zhur. prikl. khim., 28, 6, 579-584, 1955

Abstract

: The experiments were carried out in a special furnace (UMG-type), a drawing of which is given. The composition of phosphorite and apatite ores as well as that of the synthetic and natural phosphates used in the experiments is given. The difference in the reducibility of the calcium phosphate and apatite groups, is ascribed to the difference in their composition. Three tables, 5 diagrams, 11 references, all Russian (1927-1951).

Institution : None

Submitted : F 20, 1953

POSTNIKOV, N.N., kandidat tekhnicheskikh nauk; IONASS, A.A., kandidat
tekhnicheskikh nauk.

Thermic phosphates. Khim.nauka i prom 1 no.2:150-154 '56.
(MLRA 9:9)
(Phosphates)

Phosphiles of monferrous and Ught metals. N. W. Postnikov, G. Noradie, and O. V. Vasillers. U.S.S.k. are obtained by thermal treatment of a mixt. contr. P. C. and the metal. As a source of P are used usural low-Fe phosphates, such as apatite concentrate, natural phosphosics, and others together with a flux. M. Houch Distr: helij/he2c M. W. Distr: helij/he2c	

AUTHOR:

Postnikov, N. N.

sov/64-58-6-15/15

TITLE:

State and Trends in Foreign Phosphorus Industries (Sostoyaniye i tendentsii fosfornoy promyshlennosti za

rubezhom)

PERIODICAL:

Khimicheskaya promyshlennost', 1958, Nr 6, pp 381-388 (USSR)

ABSTRACT:

Among "capitalist" countries the United States rank first in phosphorus production. Great Britain, Canada, and West Germany have a relatively high production level. In 1956, US phosphorus production attained a level of 310 000 metric tons (Ref 1), phosphorus being produced by seven monopolies and one state-owned plant. The article mentions among large producers: "Monsanto Chemical Co.", "Victor Chemical Works", "Westvaco Mineral Products Division", "She Chemical Corp." (Shell), "Oldbury Electrochemical Co.", "Virginia-Caroline Chemical Corp.", the state-owned plant of TVA, as well as the projected plants of the "Potash of America" and "Central Fertilizers' companies. The "Pittsburgh Coke and Chemical Co." and "Monsanto" are mentioned among the producers of insecticides. The article contains data concerning electric furnaces, electrochemical parameters, details of the construction of

Card 1/2

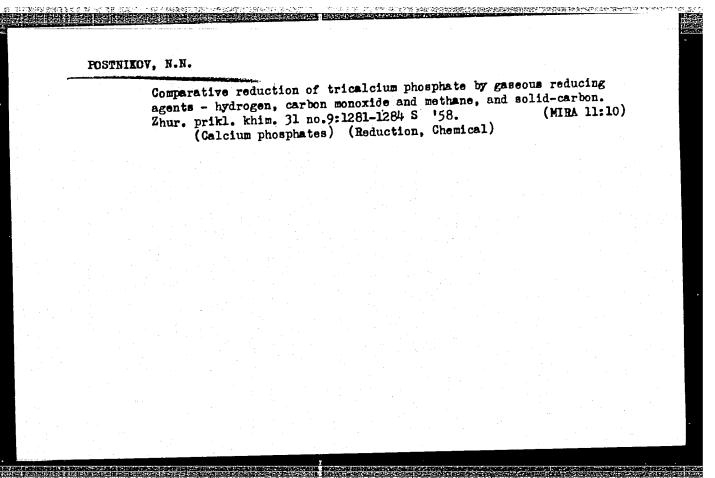
sov/64-58-6-15/15

State

and Trends in Foreign Phosphorus Industries

stationary furnaces, data of exploitation, etc., as well as figures illustrating the various data. It is mentioned in the case of electric furnaces with a rotating shaft that, according to A. S. Mikulinskiy (UNIKhIM), the USSR was the first to apply this production method. It is mentioned that Canada has two operating phosphorus plants, and that the British firm "Albright and Wilson" also has two phosphorusproducing plants. Exact details on the raw material sources, capacity, as well as figures of the furnaces are given. It is assumed that there are two plants in operation in West Germany, i.e. the "Lonza Works" and the "Stickstoffdunger A.G.". East Germany has two small plants, one at Bitterfeld and the other at Pisterits. In France there are the plants of the "Compagnie des phosphates tunesiens" and of the firm "Coignet". At present, there is one such plant in operation in Italy and in Switzerland the plant of the firm "Du Fonte Electrique". There are six plants producing phosphorus in Japan, and the firm "Albright and Wilson" as well as the "Australian and New Zeeland" Corporation in Australia. India is planning a plant with an annual capacity of 15 000 metric tons. There are 10 figures, 4 tables, and 32 references, 1 of which is Soviet. USCOMM-DC-60.846

Card 2/2



POSTNIKOV. N.N.; FRENKEL', M.G.; YEVZLINA, B.B.; SMIRNOV, A.I.; PLOTNIKOVA,

Composition and properties of defluerinated phosphates. Zhur.
prikl. khim. 31 no.10:1453-1460 0 '58. (MIRA 12:1)

(Phosphates)

SUV/20-120-2-44/63

AUTHORS:

Postnikov, N. N., Mikhaylin, A. D.

TITLE:

An Investigation of Diffusion in the System Tricalcium Phosphate - Calcium Oxide - Carbon by Means of the Radioactive Isotopes C¹⁴, Ca⁴⁵ and P³² (Issledovaniye diffuzii v sisteme trikal'tsiyfosfat - okis'kal'tsiya - uglerod s pomoshch'yu

radioaktivnykh izotopov c¹⁴, Ca⁴⁵ i P³²)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 120, Nr 2, pp.378-380

(USSR)

ABSTRACT:

In the investigation of the reduction mechanism and the kinetics of tricalcium phosphate by carbon the first author (Ref 1) set up the hypothesis that the velocity of process is limited by a mutual diffusion of reagents through the layer of reaction products (calcium oxide). At first the diffusion was investigated in the C - CaO system. Radioactive carbon was produced as soot by reduction of radioactive CO, by means of magnesium metal at 700°C. A second type of soot from acetylene and radioactive CO, did not show any great

Card 1/3

differences as compared to the former. Both consisted of

30V/ 2c-12o-2-44/63 An Investigation of Diffusion in the System Tricalcium Phosphate - Calcium Oxide - Carbon by Means of the Radioactive Isotopes C¹⁴, Ca²⁵ and P³²

 $\beta\text{-graphite}$ (Table 1). Radioactive CaO was produced by annealing of Ca 45 containing calcium carbonate. The dependence of the integral activity of the sample on the total thickness of the remote layers is to be seen in figure 1 as curve I = f(x). From the diagram the activity values were determined and from them the difference I_n-I_{n+1} . Based on this difference the dependence of the change of activity on the depth of diffusion was constructed in coordinates ln (ΔI - μI) = = $-(x^2)$ (Figure 2, 2). The values of the diffusion coefficient at different temperatures are shown in table 2 and figures 3, 1. The diffusion in the system $\text{Ca}_3(\text{PO}_4)_2$ - CaO: The determination of the diffusion of such a large tetrahedral ion as PO_4^{3-} is especially interesting for the investigation of the reduction of tricalcium phosphate. Tricalcium phosphate (radioactive phosphate) and chemically pure CaO were used as initial substances for this purpose. The method of production is described. From the obtained results the conclusion can be drawn that the sublimation process of phosphorus on the whole takes place in the solid phase and is limited by the velocity of the mutual diffusion. Therefore it is expedient to use a briquetted charge in the phosphorus sublimation in electric

Card 2/3

An Investigation of Diffusion in the System Tricalcium Phosphate - Calcium Oxide - Carbon by Means of the Radioactive Isotopes C^{14} , Ca^{45} and P^{52}

furnaces, which offers a possibility to intensify the process on a reduction of temperature in the furnace tank. There are 3 figures, 2 tables, and 4 Soviet references.

ASSOCIATION: Nauchnyy institut po udobreniyam i insektofungisidam im.

Ya. V. Samoylova

(Scientific Institute for Fertilizers and Insecticides imeni

Ya. V. Samoylov)

PRESENTED: December 31, 1957, by S. I. Vol'fkovich, Member, Academy of

Sciences, USSR

SUBMITTED: December 28, 1957

1. Galcium oxide-calcium phosphate-carbon systems-Diffusion
2. Calcium isotopes(Radioactive)-Applications 3. Phosphorus

isotopes (Radioactives) -- Applications 4. Carbon isotopes

Card 3/3 (Radioactive) -- Applications

POSTNIKOV, N. N. Doc Tech Sci -- (diss) "Study in the field of electrical sublimation of phosphorus from phosphate ores." Mos, 1959. 39 pp with graphs. (Acad Sci USSR. Inst of Metallurgy im A. A. Baykov, State Committee of the Council of Ministers on Chemistry. Sci Inst for Fertilization and Insectofungicides im Professor Ya. B. Samoylov), 150 copies. Printed by duplicating machine. List of author's works, pp 38-39 (18 titles). (KL, 52-59, 119)

-51-

5(1)

06235 \$0**7**/64-59-6-27/28

AUTHOR:

Postnikov, N. N.

TITLE:

Present State and Trends of Phosphoric Acid Production (Thermal)

Abroad

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 6, pp 544 - 551 (USSR)

ABSTRACT:

An extensive survey of the thermal phosphoric acid production in the western countries is given. As an introduction a comparison between the thermal and the extraction methods for the production of phosphoric acid from American phosphorites is made (Table 1), and respective data by Vaggaman (Ref 5) are mentioned. A table (Table 2) of the firms producing phosphorus and phosphoric acid in the USA is presented, which contains data on the productive capacity and location of the various plants (as of June 1, 1957) as well as changes in the productive capacity concerning the different phosphates and phosphoric acid from 1947 - 1958 (Table 3). Furthermore 3 production plants (Figs 1-3. Scheme) for phosphoric acid of the Tennessee Valley Authority; and one plant of the Virginia Carolina Chemical Co. are described. Mention is made of the fact that steels AISI-316, AISI-329, and AISI-347 as well as cast iron and brass (Table 4, composition) were used as structural materials in the phosphoric acid plants. The phosphoric acid firms in Canada, Eng-

Card 1/2

Present State and Trends of Phosphoric Acid Production (Thermal) Abroad 062**35** 80**V**/64-59-6-27/28

land, Western Germany, France, Switzerland, Japan, India, Australia, and Africa are briefly mentioned. Solely the production of phosphoric acid (Fig 5, Scheme) in Eastern Germany in Piesteritz is described in greater detail. The production of highly concentrated polyphosphoric acid (Fig 6) in the plant of the Tennessee Valley Authority is described. Finally, an explanation of the production of phosphoric acid by oxidizing phosphorus with water (under pressure with water vapor) is given. There are 8 figures, 4 tables, and 38 references, 8 of which are Soviet.

Card 2/2

•	,	
	5.4110	77503 SOV/80-33-1-12/49
	AUTHOR:	Postnikov, N. N.
	TITLE:	The Formation of Dust During Sublimation of Phosphorus in an Electric Furnace
	PERIODICAL:	Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 1 , pp 65-70 (USSR)
	ABSTRACT:	The chemical composition (in %) of the dust formed during sublimation of phosphorus is shown in Table A.
	P ₂ 0 ₅ Si0 ₂	(Fe Al) 203 CaO MgO K ₂ O Na ₂ O SO ₃ F C
	48.8 * 19.6 34.2 * 24.3 31.5 * 16.9 28.25** 14.3 38.4*** 19.6	3.7 3.2 1.3 13.7 6.1 0.62 1.0 - 4.5 3.9 0.9 11.5 5.9 5.8 6.3 0.8 8.8 9.6 3.18 4.0 not found 12.5 7.58 not found 1.06 18.64 - 16.3 " 13.7 - " 1.1 1.6
	Card 1/4	* Analyzed at the Pisterits Plant laboratory ** Analyzed by O. V. Vasil'yeva at the Heat Laboratory of the NIUIF *** Bixler's data (see first U.S. ref)

The Formation of Dust During Sublimation of Phosphorus in an Electric Furnace

77503 SOV/80-33-1-12/49

The presence of P_2O_5 (as phosphate) in dust is due to the oxidation of phosphorus or phosphorus oxides in the upper region of the electric furnace by air oxygen, water vapor, and carbon dioxide. A large portion of the phosphates in the dust is water-soluble. Excessive loss of phosphorus during sublimation can be prevented by elimination of air oxygen, water vapor, and ${\rm CO_2}$ from the electric furnace. This can be accomplished by treating the charge bunker with nitrogen or some other inert gas and by charging the furnace with dry, roasted material free of CO2. The high percentage of SiO2 in dust is due to reduction of silica with carbon in the high-temperatures regions of the electric furnace. Reduction of the silica can result in silicon monoxide or elemental silicon, which at the high temperature of the electric furnace undergo partial sublimation. The vapors of the reduced silica, after leaving the high-temperature region of the furnace, form a very

Card 2/4

The Formation of Dust During Sublimation of Phosphorus in an Electric Furnace

77503 sov/80-33-1-12/49

fine dust on condensation. The amount of silicon in dust is directly proportional to the ratio SiO2/CaO in the furnace charge. To decrease the amount of silicon in dust, it is necessary to decrease the ratio Sio/Cao in the furnace charge and sublime phosphorus from ground and briquetted material, since the reduction of phosphorus in this case will take place at much lower temperatures than that of silica. The amount of alkalies in dust reaches 20%. With the increase of phosphorus slag basicity, the extent of sublimation of the alkalies increases. The sublimation of alkalies is related to their evaporation as oxides and cannot be explained by the formation of fluorides (second U.S. ref). The use of acid slag decreases the sublimation of alkalies, but it increases reduction of silica. Consequently, the problem in each individual case should be solved experimentally. The source of carbon, which constitutes 1/5 of dust, can be carbon monoxide, which under favorable conditions could be converted into CO, and carbon. The

Card 3/4

The Formation of Dust During Sublimation of Phosphorus in an Electric Furnace

77503 SOV/80-33-1-12/49

latter is present in the dust as soot. The presence of iron, cobalt, and nickel facilitates the above conversion. On the other hand, carbon, aluminum oxide, and copper inhibit this conversion. Decreasing the passage time of gases through the temperature zone at which decomposition of the carbon monoxide takes place will decrease the amount of carbon soot in the dust. The structure of dust was studied with electron microscope; photographs are given in the article. There are 2 figures; 1 table; and 9 references, 7 Soviet, 2 U.S. The U.S. references are: Bixler, G. H., Ind. Eng. Ch., 48, 1, 2 (1956); Madorsky S., Ind. Eng. Ch., 23, 1 78 (1931).

SUBMITTED:

February 14, 1959

Card 4/4

ABLICHENKOV, F.T.; POSTNIKOV, N.N.

Simultaneous production of yellow phosphorus and argillaceous cement. Khim. prom. no.6:431-436 Je 164. (MIKA 18:7)

L 65098-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5021968 UR/0286/65/000/014/0013/0013 661.631.3.4

AUTHOR: Postnikov, N. N.; Ablichenkov, I. I.; Miniks, M. V.; Strel'tsov, A. N.; Bol'shakova, A. P.; Petrov, N. P.; Krasinskiy, I. Ya.

TITLE: A method for producing yellow phosphorus. Class 12, No. 172730

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 13

TOPIC TAGS: phosphorus, nonmetal element

ABSTRACT: This Author's Certificate introduces a method for producing yellow phosphorus from high-carbonate phosphorus raw material by volatilization in electric furnaces. The process is intensified by heat treating the raw material at 950--1050°C before charging the furnace.

ASSOCIATION: Nauchno-issledovatel'skiy institut po udobreniyam i insektofungisidam goskhimneftekomiteta pri Gosplane SSSR (Scientific Research Institute for Fertilizers and Insectofungicides, Goskhimneftekomitet, Gosplan SSSR); Leningradskiy gosudarstvennyy institut po proyektirovaniyu zavodov osnovnoy khimicheskoy promyshlen-

Card 1/2

ACCESSION NR: AP5021968 nosti goskhimneftekomiteta j	owi Gosplane SSSR (Leningrac	 State Institute for the
Planning of Factories for the Gosplan SSSR)	ne Fundamental Chemical Indu	stry, Goskhimneftekomitet
SUBMITTED: 27Jan64	ENCL: 00	SUB CODE: IC, GG
NO REF SOV: 000	OTHER: 000	

Comments on P.V.Gel'd's note on the article "Comparative reduction of tricalcium phosphate ty gaseous reducing agents - hydrogen, carbon monoxide - and solid carbon. Zhur. prikl. khim. 33 no.6:1430-1433 Je '60. (MIRA 13:8) (Calcium phosphate) (Hydrogen) (Carbon monoxide) (Carbon)	POSTNI	KOV, N.N.			
(Calcium phosphate) (Hydrogen)		monoxide - and solid carbon.	Secus reducing	; agents - hyd khim. 33 no.6	rogen, carbon :1430-1433
(Carbon)		(Calcium phosph	ate)	(Hydrogen)	IAA I);6)
		(Caroon monoxi	de)	(Carbon)	

\$/724/61/000/000/005/020

AUTHORS: Al'tman, M.B., Lotareva, O.B., Postnikov, N.S., Spiridonova,

The cast Aluminum alloy BAA 4 [VAL4] (BA15 [VL15]). TITLE:

Liteynyye alyuminiyevyye splavy; svoystva, tekhnologiya plavki, lit'ya i termicheskoy obrabotki. Sbornik statey. Ed. by I.N. Fridlyander SOURCE:

and M.B. Al'tman. Moscow, Oborongiz, 1961, 43-51.

The paper describes a new alloy of the system Al-Mg-Zn, developed by I. F. Kolobnev, M. B. Al'tman, and O. B. Lotareva to achieve better strength characteristics than those of the similar alloy A612F described in the ALCOA Aluminum Handbook, 1957. The technological properties of the new alloy permit its application over a wide range of casting dimensions and configurations. The alloy excels in the stability of its mechanical properties across the cross-section of a thick casting. The alloy machines and polishes well and is readily welded and brazed, all of which makes it suitable for complex parts of electrical and radio equipment. The step-by-step development of the alloy is described, leading up to the final composition of the alloy: 3.5-4.25% Zn, 1.5-2% Mg, 0.2-0.5% Mn, 0.1-0.2% Ti, the remainder Al. The alloy is essentially an Al-Al2Mg3Zn3 alloy. The phase diagram of this type of alloy is examined to obtain guidance for a suitable heat treatment.

Card 1/2

5/724/61/000/000/005/020

The cast Alumium alloy....

A two-stage heating procedure prior to quench, comprising a heating to 475°C for 2 hrs and 580° for 3 hrs was selected, except that thin-walled parts, free of any Lars and sou for sars was selected, except that thin-walled parts, free of any local thickenings, can be heated directly to 580° for 5 hrs. Parts are then quenched and are maintained at 120° for 8 hrs to achieve a further strengthening. Air-cooling from 580° was also tested. The microstructure of the cast alloy consists of solidsolution grains, along the boundaries of which small quantities of MgZn2 and impurities appear. After heat treatment, a MgZn2 phase is no longer observed, and the amount of T phase is significantly reduced. Corrosion tests showed a corrosion resistance of the VAL4 alloy close to that of the AL2 and AL13 alloys, and, hence, far exceeding that of the ordinary cast alloys which contain Cu. The hermeticity of VAL4 is not outstandingly good; leakage began at 60- to 80-atm pressure, thus placing the VAL4 alloy into the same category as the AL7 and AL8 alloys. There are 4 figures, 3 tables, and 4 references (2 Russian-language Soviet and 2 English-language: Metallurgia, v.51, no.306, 1955, and the ALCOA Aluminum Handbook, 1957).

Card 2/2

AL'TMAN, M.B.; LOTAREVA, O.B.; POSTNIKOV, N.S.; Prinimali uchastiye:
SPIRIDONOVA, S.B.; LOKTIONOVA, L.T.

High-strength BAL2 alloy. Alium. splavy no.1:5-13 '63.
(MIRA 16:11)

\$/724/61/000/000/019/020

AUTHORS: Lotareva, O.B., Postnikov, N.S., Loktionova, L.I.

The properties of Al alloys cast by various casting methods. TITLE:

Liteynyye alyuminiyevyye splavy; svoystva, tekhnologiya plavki, lit'ya i termicheskoy obrabotki. Sbornik statey. Ed. by I.N. Fridlyander SOURCE:

and M. B. Al'tman. Moscow, Oborongiz, 1961, 157-170.

The paper describes an experimental investigation of the effects of various types of casting techniques on the standard USSR Al alloys AA (AL) -2, -3, -4, -5, -7, -8, and -9, cast in ethylsilicate molds, by the lost-wax process, and in shell molds, and of the new alloys AL19 and AL21 cast according to new methods. It is found that the standard alloys all satisfy the requirements of the All-Union Standard (GOST) 2685-53, regardless of the casting method. The use of the lostwax method was limited to small parts and to rods with a cross-shaped crosssection. A broad range of mold temperatures (T) from 20 to 350°C was tested, and the tensile strength and elongation of the resulting specimens were measured in the standard heat-treated state of each alloy. A mold T of up to 300° was found to have but little influence on the mechanical properties of the alloys investigated. At higher mold T a loss in mechanical properties is found. A comparison of the

Card 1/3

\$/724/61/000/000/019/020

The properties of Al alloys cast by various

fluidity of the alloys in pouring into shell molds and ethylsilicate molds showed a fluidity somewhat greater than when pouring was done into sand molds. Typical comparison of the length of spirals cast for the AL7 alloy: 575 mm in a shell mold, against 508 mm in a sand mold. The mechanical properties of specimens 5-mm in diameter made of AL9 alloy cast into gypsum molds do not differ from the properties of the same alloy when cast into a sand mold. In 8-mm and 12-mm diam specimens some small impairment in mechanical properties is observed. A 10-15% impairment in mechanical properties is noted in alloys AL19 and AL21 cast into gypsum molds. It was also noted that any heating of the gypsum molds impairs the mechanical properties of 8-mm-diam and, even more appreciably, of 12-mm-diam specimens made of the latter 2 alloys, whereas the properties of 5-mm-diam specimens is not affected thereby. The fluidity (and, therefore, pourability) of the AL9, AL19, and AL21 alloys in pouring into either cold or heated gypsum molds exceeds that observed in pouring into sand molds by several times. For example, the length of an AL9 spiral cast in a gypsum at 20°C is 1,500 mm, as against 550 mm in a sand mold. The same ratio of appx. 3:1 prevails in the other 2 alloys, also. A time-and-temperature study was made of the heat-absorption capabilities of the various molds, and it was found that the heat is taken from the casting most rapidly by the ethylsilicate mold, then by the shell mold, and lastly by the gypsum mold. This is interpreted as an explanation of the relatively low mechanical

Card 2/3

	f Al alloys cast by va		61/000/000/019/020
ties obtained in c	astings made in a sai	n molds and the practical ad mold, a shell mold, a shell mold, a , and 4 references (3 Ru	nd an ethylsilicate
Soviet and I Engl	ish-language group:	Brown, H., Foundry, Jap. 1956, 104). The partic	n. 1950, 74; Light
Baradan'yants in	the present project, of molds, is acknow	and his development of the	ne method for making
Card 3/3	물론을 연극하면 불렀다 선택하다는		잃어 있는 점심 그래 중하는 모든 것

BOGOYAVLENSKIY, Konstantin Nikolayevich; ZHALOBOV, Viktor
Vladimirovich; DERGACHEV, Vladimir Ivanovich; ZUBTSOV,
Mikhail Yefimovich; LANDIKHOV, Aleksandr Denisovich;
POSTNIKOV, Nikolay Nikolayevich; MILLER, L.Ye., red.;
EL'KIND, L.M., red.1zd-va; ISLENT'YEVA, P.G., tekhn.red.

[Working nonferrous metals and alloys by pressure] Obrabotka tsvetnykh metallov i splavov davleniem. [By] K.N. Bogoiavlenskii i dr. Izd.2., perer. i dop. Moskva, Metallurgizdat, 1964. 564 p. (MIRA 17:3)

\$/0129/64/000/006/0015/0018 ACCESSION NR: AP4040688 AUTHOR: Al'tman, M. B.; Postnikov, N. S.; Loktionova, L. I. TITLE: Airtight casting alloy of the Al-Si-Hg system SOURCE: Metalkovedeniye i termicheskaya obrabotka metallov, no. 6, 1964, 15-18 TOPIC TAGS: aluminum alloy, aluminum silicon magnesium alloy, VAL5 alloy, beryllium containing alloy, titanium containing alloy, alloy property ABSTRACT: An investigation showed that beryllium and titanium, when added to the Al-Si-Mg alloy, contributed to grain refining and increased strength. The maximum strength of 33.5 kg/mm² of solutionannealed and aged alloy was attained at 0.15-0.4% Be and 0.15% Ti, while the strength of the alloy with 0.5-1% Be without titanium was only 27-29 kg/mm2. To obtain a 50-60% eutectic (for higher airtightness), the content of silicon should be limited to 6.5-8.5%. Although magnesium silicide is the main strengthening phase, the magnesium con-... tent should not exceed 0.55%. Higher magnesium contents result in

	0/012/0032/003
AUTHOR: Postnikov, N. S. (Engineer); Zakharov, A. Z.	_(FuRTurer)
TITLE: The tightness of cast aluminum alloys	TE B
SOURCE: Liteynoye proizvodstvo, no. 12, 1964, 32-33	
ance aluminum alloy all	loy permeabilit
alloy property/VAL-5 laluminum alloy, ALZ laluminum alloy, VAL 4	/aluminum alloy
AL7 aluminum alloy, AL8 aluminum alloy, ALou aluminum	alloy, AL19
aluminum alloy, AL22 aluminum alloy	
ABSTRACT: Hydraulic and pneumatic pressure tests of AL9, AL5, and AL4 cast aluminum alloys with compositi	the VAIS, AL2,
Autoattas have chown that tightness depends upon man)	Lactors, per.
as alloy composition, crystallization range, casting	alloys with
。	CHC MOONTHAM
alloys. The new VAL-5 cast aluminum alloy (6.5-8.5%	
Card 1/2	

L 21144-65 ACCESSION NR: AP5001337

Mg, 0.15—0.4% Be, 0.1—0.3% Ti, rest—Al) has a narrow crystallization range and is 30—50% stronger than other indicated alloys; it also had the highest tightness. Its machined castings with 2.5-mm wall thickness failed only under 170—180 atm. pressure, and those with 4-mm wall thickness withstood a pressure over 300 atm. No leakage or failure was observed in production-scale tests on VAL-5 alloy T-pieces at 450 atm. The highest permeability was observed in AL7, AL8, AL8U, AL19, and AL22 alloy castings which, depending upon their wall thickness and state of surface, leaked under 10—100 atm. pressure. Among the alloys with a wide crystallization range, the as-cast cast, heat-treated, VAL4 alloy of the Al-Zn-Mg system was found to have the lowest permeability: no leakage was observed at 200 atm hydraulic pressure or at 30 atm air pressure. Orig. art. has: 5 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: '00

SUB CODE: MM

NO REF SOV: 005

OTHER: .000

ATD PRESS: 3165

Card 2/2

POSTNIKOV, P.A.

Make wider use of the air-blast cleaning of switches. Put' i put. (MIRA 17:3) khoz. 8 no.3:30 '64.

1. Nachal'nik Leningrad-Moskovskoy distantsii puti Oktyabr'skoy dorogi.

POSTNIKOV, S.A.; Prinimal uohastiye ZYKOV, K.D.

Cannon net. Trudy OGZ no.4:395-401 '62. (MIRA 17:9)

FOSS, V.L.; KUDINOVA, V.V.; POSTNIKOVA, G.B.; LUTSENKO, I.F.

Derivatives of A-ketophosphinic acids. Dokl. AN SSSR 146 no.5:
1106-1108 0 162. (MIRA 15:10)

(Phosphinic acid)

GASHUNIN, V.F.; POSTNIKOV, O.K.; MAKOVSKAYA, R.P., red. [Controlling noise and vibrations] Bor'ba s shumom i vibratsiei; tema V. Uchebnoe posobie po kursu "Tekhnika bezopasnosti" dlia studentov zaochnogo i vechernego otdeleniia. Moskyn, Mosk. poligr. in-t, 1963. 22 P. (Printing industry—Hygienic aspects)
(Noise) (Vibration)

POSTNIKOV Clag Konstantinovich; MIL', A.A., inzh., retsenzent; LANKAU,

A.W., red; BORISOVA, V.I., tekhn.red.

[Design and use of IP printing presses] Ustroistvo i ekspluatatsila pechatnykh mashin tipa IP. Moskva, Gos.izd-vo "Iskusstvo,"

[1959. 166 p. (Printing press) (MIRA 13:5)

POSTNIKOV, O. K.

Postnikov, O. K.

"Investigation of the Basic Parameters and Methods of Calculating Cardboard - Cutting Machines. Min Higher Education USSR. Moscow Polygraphics Inst. Moscow, 1955 (Dissertation for the degree of Candidate in Technical Science)

SO: Knizhnaya letoris' No. 27, 2 July 1955

Modernizing and designing cardboard-cutting machines. Nauch, trudy MPI no.7/8:3-28 '58. (Cutting machines)

POSTNIKOV, P. A.

"Redesigning the Control Levers and the Seats of the Engineer and His Assistant in a Locomotive From the Hygienic Point of View." Cand Med Sci, First Moscow Medical Inst, Moscow, 1955. (KL, No 12, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

POSTIWIKOY,	PF. POSTNIKOV. P.F.
	144. Selection of respectories for the lining of copper-melting reserver torry furnaces. 1. P. Bae'yas, M. M. Dvoskino, I. G. Sarkisov, and P. E. Postnikov (Ogneupar), 22. 301, 1937). In Russian. Since conditions of service in the lurnace vary, it is suggested that different refractories should be used in different parts of the furnace to give a uniform life. Bungs in the 1st and 2nd roof-sections should be lined with magnesite chrome panels (1:2-1-5 m wide), the central part of the first 2 roof-sections and the 3rd section with forsterite (18 in. long), and the rest of the roof with silica (15 or 12 in. long). The walls above the bath should
	be lined with forsterite, (5 figs., 5 tables.)

POSTNIKGY, P. F.

BAS'YAS, I.P.; DVORKIND, M.M.; SARKISOV, I.G.; POSTNIKOV, P.F.

Efficient choice of refractories for laying a copper smelting reverberatory furnace. Ogneupory 22 no.7:301-306 57. (MIRA 10:8)

1. Ural'skoye otdeleniye instituta egneuporov (for Bas'yas and Dvorkind). 2. Krasnoural'skiy medeplavil'nyy zavod (for Sarkisov and Postnikov).

(Smelting furnaces) (Refractory materials)

POSTNI	KOV, PF.	
		9
	The rational choice of refractories for lining the reverbe tory furnaces of copies sincitors. 1, P. Hus'yas, M. Dvorkhul. 1, G. Serkley, and P. E. Postnikov, Ugr. pary 22, 301-40 [1957] — Results.	10. 1-46.2c
	the condition of diffi- Acauts of observation and study	_01
	to the conclusion that forsteries below at tory furnaces le	ad
eser Andreas Statistics (1985) (1985) (1985) Andreas (1985) (1985) (1985)	fory hites at compar. SiOr to at, Aler 0.9, and Pelo, f. M. ulffingh, fligy yeld to chrome-magnesic die this Season	20 ()
	ant to ficat knoson than "Dinas "Qu Russian allicar refer fory brick of compin. SiO: 05.11, Al.O: 0.9, and Fe.O: 4.5' ultihough they yelld to chrome-magnesite his ship tesper Dinas bricklin hick survice differ little from ordinary Appereding "History through fusion." Forsterite and chrome magnesite bricks in service take on, a more clearly define and structure than Dinas. Photomicrographs show the structure than Dinas. Photomicrographs show the classification of solids of points, chromate, glassf-caprite, petchase, etc. Erision takes the form of scaling. A ration scheme provides for inning the charging end of the 1st and sections of	
	zonal structure than Dinas, Photomicrographs show to threscuce of zones of points, chromite, glass couries	ed he
	the arch and the entire 3rd section line list 2 sections	01
	end) with forsterite bylcks 460 mm. long, the 4th and 50 sections with Dinas brick of the same length, and the rest the arch with Dinas 300 to 380 mm. in length. The wall	
	above the level of the charge, should be constructed of fo sterite brick. H. L. Olin	
		rangung menerakan pengungan dianggan pengungan dianggan pengungan pengungan pengungan pengungan pengungan peng Banggan pengungan pe

POSTNIKOV, R. P. Doc Med Sci -- (diss) The problem of the pathogenesis of obliterating himselfund thrombangioneurosis (endarteritis), and its rational treatment. Len, 1956. 22 pp 20 cm. (Min of Health RSFSR. Len Sanitary Hygiene Med Inst), 125 copies (KL, 7-57, 108)

62

SMIRNOV, A.V.: POSTHIKOV, R.P.

Primary and secondary cavernotomies and complications. Trudy ISCHI 39:189-194 '58. (MIRA 12:8)

1. Kafedra gospital'noy khirurgii Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta (zav.kafedroy - z.d.n., prof.A.V.Smirnov). (TUBERCULOSIS, PULMONARY, surgery, cavernotomy, compl. (Rus))

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POSTNIKOV. R.P.

Pathogenic problems in obliterating thromboangioneurosis (endarteritis) and effective therapy. Trudy LSCMI 39:220-236 58. (MIRA 12:8)

1. Kafedra gospital'noy khirurgii Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta (zav.kafedroy z.d.n., prof.A.V.Smirnov) i Otdel farmakologii Instituta
eksperimental'noy meditsiny AMN SSSR (zav.otdelom - deystv.
chlen AMN SSSR, prof.S.V.Anichkov).

(THROMBOANGIITIS OBLITERATERNS,
pathogen. & ther. (Rus))

POSTNIKOV, R.P., professor

Solitary cysts of the kidneys and perirenal cellular tissue.

Vest.khir. no.6:96-98 % 62. (MIRA 15:11)

1. Iz gospital noy khirurgicheskoy kliniki (zav. - prof. R.P. Postnikov) Chitinskgo meditsinskogo instituta (KIDNEYS—TUMORS) (CYSTS)

POSTNIKOV, R.P., kand.med.nauk

Pathogenesis and treatment of endarteritis obliterans. Trudy ISGMI (MIRA 10:12) 33:117-129 56.

l. Gospital'naya khirurgicheskaya klinika Leningradskogo sanitarnogigiyenicheskogo meditsinskogo instituta.(zav. klinikoy - zasluzhennyy deyatel' nauki, prof. A.V.Smirnov)
(THROMBOANGIITIS OBLITERANS,
pathogen. & ther.)

POSTNIKOV, R.P., kandidat meditisnskikh nauk. Sugar in the blood during endarteritis obliterans. Vest. khir. 76 (MIRA 9:4) no.11:34-37 '55. 1. Iz gospital'noy khirurgicheskoy kliniki (dir.-professor A.V. Smirnov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta. (ENDARTERITIS OBLITERANS, blood in sugar level) (BLOOD SUGAR, in various dis. endarteritis obliterans)

POSTNIKOV, R.P., kandidat meditsinskikh nauk.

Endarteritis obliterans; review of foreign literature. Vest. khir.
76 no.11:140-145 '55.

(M:DARTERITIS OBLITERANS
review)

POSTNIKOV, R.P., doktor med.nauk

Diagnosis and treatment of generalized biliary peritonitis without perforation of the bile ducts. Vest.khir. 85 no.11:33-37 N '60. (MIRA 14:2)

l. Iz gospital noy khirurgicheskoy kliniki (zav. - prof. A.V. Smirnov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta i gospital noy khirurgicheskoy kliniki (zav. - doktor med.mauk R.P. Posgnikov) Chitinskogo meditsinskogo instituta. (PERITONITIS)

SOV-2-58-7-5/14 AUTHORS: Matyukha, I., Postnikov, S. and Samoylov, V.

TITLE:

From the History of Family Budget Statistics of the Population of the USSR (Iz istorii statistiki byudzhetov naseleniya

v SSSR)

Vestnik statistiki, 1958, Nr 7, pp 37 - 50 PERIODICAL:

ABSTRACT: This is a detailed report on the development of statistical

inquiries on family budgets. At present the budgets of 20.2 thousand typical workers families and 25.9 thousand kolkhoz families are questioned systematically every year on their economic situation, real income, etc. During the Soviet regime the following statisticians have carried out special statistical investigations on family budgets: Academician S.G. Strumilin, N.I. Dubinskaya, A.Ye. Lositskiy and others.

There are 3 Soviet references.

Card 1/1

POSTNIKOV, S.

Labor and Laboring Classes

New stage in the development of budgetary statistics on workers, employees, and collective farmers. Vest. stat., No. 6, 1951.

Monthly List of Russian Accessions, Library of Congress, March 1952, Unclassified.

05909

SOV/107-59-7-12/42

Postnikov, S., Category I Judge, Secretary of the Main Board of Judges AUTHOR:

9(

The Results of the 12th All-Union Radio Operator TITLE:

Correspondence Contest

Radio, 1959, Nr 7, p 13 (USSR) PERIODICAL:

The author reports the results of the 12th All-Union ABSTRACT:

radio operator correspondence contest in which 22,168 people participated. He mentions a number of radio operators who scored remarkable results: D. Malomuzh

(Odessa), A. Sidorenko (Vladivostok), N. Napylov

(Vladivostok), V. Solov'yeva (Murmansk), A. Stukalina (Vladivostok), Yu. Kapustin (Kaluga), G. Rassadin, G. Patko, V. Somov, N. Yemshanov, Z. Voytenko, M. Tkhor', A. Glotova, N. Mavridis, V. Tatarinov, V.

Pavlysheva, G. Yarovenko, Ya. Gekht, M. Iridis. In

the team competition, first place was taken by the Moscow City Radio Club (G. Patko, M. Makeyeva, V. Card 1/2

05909 SOV/107-59-7-12/42

The Results of the 12th All-Union Radio Operator Correspondence Contest

Pavlysheva, G. Rassadin, A. Krotov), second by the Radio Club of the Primorskiy Kray (A. Stukalina, N. Kostina, V. Orover, V. Kuligin, A. Sidorenko), and third by the Irkutsk Radio Club (N. Mavridis, M. Idrisov, Ye. Sayfusheva, V. Piyetskaya and V. Lastovka). The fourth place was taken by a Yakutsk team and the fifth by Leningrad radio operators.

Card 2/2

POSTNIKOV, S.

Auditing

How to organize better the inspection of workers', employees', and farmers' budgets. Vest. stat. No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953. Unclassified.

AYZENVARG, Ye.V.; POSTNIKOV, S.A., redaktor; SEMENOVA, M.M. redaktor; VOLKOVA, Ye., tekhnicheskiy redaktor.

[Manual for the operator of a steam crane] Uchebnik dlia kranovshchika parovogo krana. Moskva, Gos. izd-vo vodnogo transporta, 1954. 207 p. (Cranes, derricks, etc.) (MIRA 7:12)

BELOV. Mikhail Ivanovich, dotsent, kand.tekhn.nauk; KALININ. B.A., retsenzent; YUMIN, N.A., retsenzent; POSTNIKOV, S.A., red.; MAKRUSHINA, A.N., red.izd-va; YKRMAKOVA, T.T., tekhn.red.

[Organization and technical standardization in stevedoring]
Organizatsiia truda i tekhnicheskoe normirovanie na peregruzochnykh rabotakh. Moskva, Izd-vo "Rechnoi transport," 1959. 166 p.
(MIRA 12:11)

(Docks) (Loading and unloading)

VAL'KOV, Grigoriy Petrovich; KAZANTSEV, A.M., dotsent, kand.tekhn.nauk, retsenzent; POSTNIKOV, S.A., inzh., retsenzent; RZHECHITSKIY, B.D., inzh., red.; MAKRUSHIWA, A.W., red.izd-va; BOBROVA, V.A., tekhn.red.

[Organization and mechanization of cargo operations] Organizateila i mekhanizateila gruzovykh rabot. Moskva, Izd-vo "Rechnoi transport," 1959. 388 p. (MIRA 12:4)

(Cargo handling)

POSTNIKOV, Serwey Andreyevich; ZABOLOTSKIY, Sergey Nikolayevich;
TUROV, S.S., doktor biol. nauk, prof., red.; KREKSHINA,L.,
red.

[Stories of a Meshchera pathfinder] Rasskazy meshcherskogo
sledopyta. Moskva, Mosk. rabochii, 1964. 143 p.

(MIRA 18:1)

AND THE CONTRACT OF THE PROPERTY OF THE PROPER

POSTNOV, S.D., dots.

Effectiveness of the pillar system for mining thin flat seams of the Bulanash deposit. Izv.vys.ucheb.zav.; gor.zhur. no.3: 35-46 159. (MIRA 13:4)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva. Rekomendovana kafedroy razrahotki plastovykh mestoroshdeniy. (Sverdlovsk Province-+Coal mines and mining)

KALININ, Boris Arkhipovich; ITTENBERG, I.A., retsenzent; POSTNIKOV, S.N., red.; LOBANOV, Ye.M., red.izd-va; TSVETKOVA, S.V., tekharred.

[Principles of setting production stendards for loading and unloading work] Osnovy tekhnicheskogo normirovaniia pogruzochno-razgruzochnykh rabot. Izd.2-oe, perer.i dop. Moskva, Izd-vo "Rechnoi transport." (MIRA 11:1)

1957. 107 p. (Loading and unloading)

S/697/61/000/000/003/018 D228/D303

Bibikova, V. I., Oleynikova, K. V., Postnikova, S. V.

and Khazanova, T. P. AUTHORS:

Behavior of rhenium during the roasting of molybdenite concentrates and technologic methods of obtaining it TITLE:

Akademiya nauk SSSR. Institut metallurgii im. A. A. Baykova. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov. Mezhduvedomstvennaya komissiya po SOURCE:

reukikii elementov. Reznauvedomstvennaya komissiya po redkim metallam. Vsesoyuznoye soveshchaniye po probleme redkim Moscow, 1958. Reniy; trudy soveshchaniya. Mos-reniya. Moscow, 1958. Reniy; trudy soveshchaniya. Mos-cow, Izd-vo AN SSSR, 1961, 37-41

The authors describe their investigation of: (a) distribution of Re in almost all molybdenite concentrates being processed in the USSR, (b) distribution of Re in Cu-Mo ore from three benefit ciation plants, and (c) general behavior of Re during the roasting clation plants, and (c) general behavior of he during one roasting of metal of metal of molybdenite concentrates. They also suggest certain refinements of molybdenite concentrates. For Re. Concentrates from deposits in the production technique for Re.

Card 1/3

Behavior of rhenium ...

\$/697/61/000/000/003/018 D228/D303

Armenia, Kazakhstan and Uzbekistan are characterized by rather high Re contents which exceptionally rise to 0.1%; in those from other Siberian and Far Eastern deposits, however, the maximum concentration was not found to exceed 90 p.p.m. Data given in a table show that in the case of ore from three beneficiation plants the Mo-fraction holds up to 5 times as much Re as the Cu-fraction. Graphs are presented to illustrate the higher vapor-tension of Re207 as compared with MoO3 at different temperatures. The authors stress the need for an excess of air during the roasting of concentrates if the formation of ReO3 and ReO2, which have a lower vapor-tension, is to be avoided. It is also noted that Re is most fully sublimated in furnaces of the boiling-layer type; here, 95% of the metal passes into gaseous phase, whence it is best recovered by means of a wet Cottrell filter or a rapid foam-bubbler. Turning to the question of Re production technology, which is at present largely governed by the high and low solubilities of Re₂0₇ and KReO_{A} , the authors describe their attempts to reduce KReO_{A} and Card 2/3

Behavior of rhenium ...

S/697/61/000/000/003/018 D228/D303

NH $_4$ ReO $_4$ with H $_2$. This was done in 2 two-hourly stages -- first at 480 -- 500 $^{\circ}$ C, and then at 900 -- 1000 $^{\circ}$ C. Washing the resulting pcwder with HCl increases the purity of Re, but decreases the direct yield of metal from 95 - 98 to 92 -- 93%. There are 2 tables and 1 figure.

Card 3/3

35081 s/697/61/000/000/009/018 D228/D303

19.3100

Bibikova, V. I., Postnikova, S. V. and Oleynikova, K.V.

AUTHORS:

TITLE:

Methods of preparing rhenium of high purity

SOURCE:

Akademiya nauk SSSR. Institut metallurgii im. A. A. Baykova. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov. Mezhduvedomstvennaya komissiya po reakim metallam. Vsesoyuznoye soveshchaniye po probleme redkim metallam. Vsesoyuznoye soveshchaniye po probleme reniya. Moscow, 1958. Reniy; trudy soveshchaniya. Moscow, Izd-vo AN SSSR, 1961, 75-80

The aim of this work, which was carried out at the Giredmet TEXT: The alm of this work, which was carried out at the Giredmet (State Institute of Reduction Metallurgy), was to obtain metal containing minimal amounts of K and Ca and 5 p.p.m. Pb, Sn, Cd, containing minimal amounts of K and Ca and 5 p.p.m. Pb, Sn, Cd, and Sb. The separation of metals by sublimation is largely gowered by their vapor tensions at high temperatures, as is shown diagramatically for Ap Dh Sn Ri and Sh in the temperature respective. verned by their vapor temperature range diagramatically for As, Pb, Sn, Bi, and Sb in the temperature range 350 - 2300°C. One method recommended by the authors consists of

Card 1/2

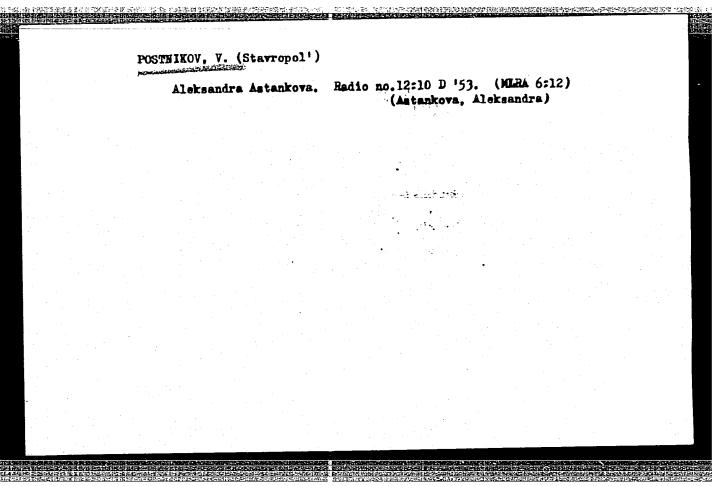
S/697/61/000/000/009/018 D228/D303

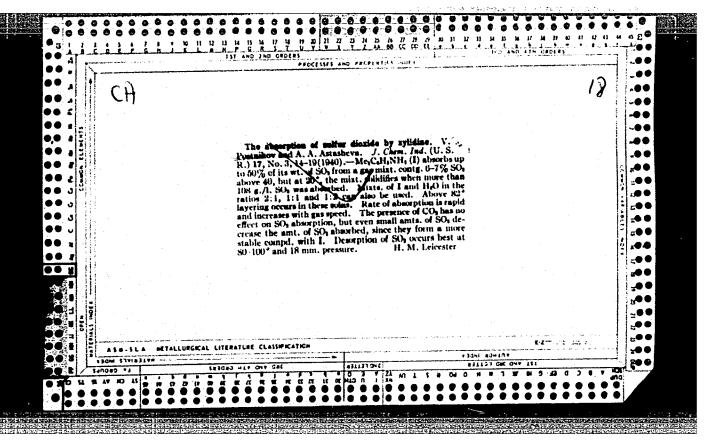
Methods of preparing ...

the vacuum heating of compressed Re powder for 2 hours to a temperature of 2500°C; the metal thus obtained is 99.988% pure. No attempt was made to determine the content of the gases, but the data of C. T. Sims et al. are quoted in this respect. The results of the study of the effect of the temperature and duration of heating on the removal of Pb and 12 other elements are illustrated by means of graphs and tables. They indicate that equally pure Re can be prepared at a lower temperature (~2050°C) if the period of heating is increased to 4 - 6 hours. Further data are then adduced to show that the K and Ca contents of metallic Re can be lowered to <0.02 and 0.002% respectively by means of a method, entailing the redn. of NH4ReO4 with H2 and the subsequent heating of the residue to 1600 - 2500°C in vacuo. There are 2 figures, 4 tables, and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. / Abstracter's note: One of the non-Soviet-bloc references is a Russian translation. 7 The references to the English-language publications read as follows: E. M. Sherwood, D. M. Rosenbaum and J. M. Blocher, J. electrochem. Soc., 102, no. 11, 650, (1955); C. T. Sims, J. Metals, January, 168, (1955). Card 2/2

LETENKO, V.; SAVITSKIY, P.; POSTNIKOV, V.

Beconomic efficiency of radioisotopes in industry, Vop.ekon.
no.9:132-136 S '59. (MIRA 12:12)
(Radioisotopes—Industrial application)





S/694/62/000/119/003/003 E193/E383

AUTHOR: Postnikov, V.A., Engineer

TITLE: Analysis of the mechanism for withdrawing the mandril

in XIII (KhPT) [cold tube-rolling] stands

SOURCE: Sverdlovsk. Ural'skiy politekhnicheskiy institut.

Trudy. no. 119. 1962. Raschet i konstruirovaniye oborudovaniya metallurgicheskikh predpriyatiy. 67-77

TEXT: The present paper is concerned with the equipment for fabricating tapered tubes with either constant or varying wall thickness. Tubes of varying wall thickness are produced by the process in which a suitably shaped mandrel is gradually withdrawn from the tube being rolled. Equipment for fabricating tubes of this type has been designed and constructed at the Uralmashzavod. The basic part of the equipment is the mechanism that synchronizes the withdrawal of the mandrel with the rolling process. Two variations of this mechanism, one incorporating "komandoapparats", the other selsyns, have been constructed and a schematic plan of the rolling stand incorporating the latter variation is given in the paper. Operational experience has shown that the various Card 1/3

S/694/62/000/119/003/003-E193/E383

Analysis of

Card 2/3

parts of the stand do not function in accordance with the prediction based on theoretical calculations and this often results in faulty operation of the synchronizing mechanism. object of the investigation described in the present paper was to carry out an analytical study of the function of the equipment in order to obtain data that could be used both to improve the design of the equipment and to ensure its satisfactory functioning under various conditions. The theoretical part of the investigation included an assessment of the factual displacement of the mandrel and forces acting in the mechanism, accurate calculation of the weight which motivated the mandrel withdrawing mechanism and derivation of the relationship between the displacement of the tube and the mandrel. The theoretical analysis was supplemented by experiments in which various parameters of the rolling process. and operation of the mandrel withdrawing mechanism were determined. The main conclusions reached were that tubes with uniformly. varying wall thickness could not be produced on stands incorporating the komandoapparats and that the main cause of faulty functioning of equipment incorporating selsyns was the adoption of

Analysis of ...

dead weight to motivate the mandrel withdrawing mechanism. One way of eliminating this source of failure, suggested by the way of eliminating this force to the lead screw of the mandril-Pervoural'skiy novotrubnyy zavod (Pervoural' New Tube-producing Pervoural'skiy novotrubnyy zavod in the lead screw of the mandril-Works), is to transmit the force to the lead screw of the mandril-holder via a self-braking worm gear directly from an electric motor. There are 6 figures and 3 tables.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342620014-8"

Card 3/3

POSTNIKOV, V.A.

Size of the crystals in fluid-bed crystallizing apparatus.
Khim.prom. no.11:853-856 '63. (MIRA 17:4)

SOKOLOVSKIY, V.I., kand.tekhn.nauk, FOSTRIKOV, V.A., inzh.

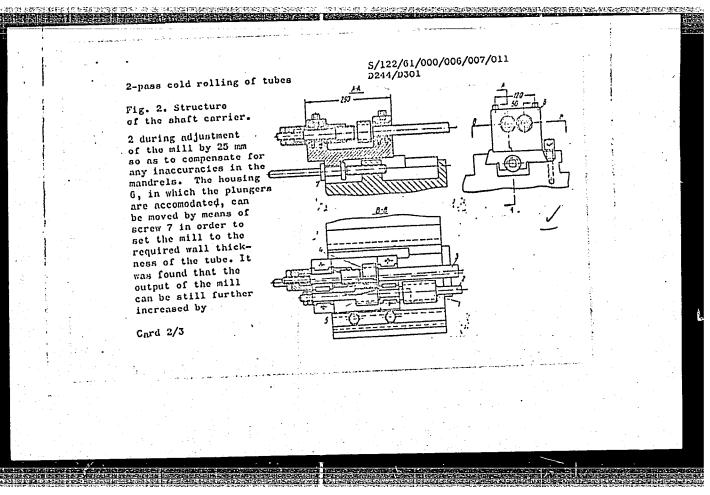
Investigating the rolling of conic pipes. Trudy Ural.tolitekh.
inst. no.101:54-67 '60. (MIRA 14:3)

(Pipe mills)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001342620014-8

POSTNIKOV, 5/122/61/000/006/007/011 D244/D301 Sokolovskiy, V.I., Levaynem, A.G., Odintsov, B.P., AUTHORS: Goronkov, Ye. S., and Postnikov, V.A. 2-pass cold rolling of tubes TITLE: Vestnik mashinostroyeniya, no. 6, 1961, 50-52 PERIODICAL: TEXT: Simultaneous cold rolling of 2 tubes, i.e. 2-pass rolling, has been carried out at the Pervoural'skiy novotrubnyy zavod (Pervoural New Tube Plant) using a PC (RS) 2 1/2" mill. This has resulted in a considerably increased output. Fig. 1 shows the grooves for 2-pass rolling, and Fig. 2 the structure of the shaft carrier. Fig. 1. Grooves for 2-pass rolling. Theroll revolution is transmitted by the gearbox 1 to the stem of plunger 2 and further to plunger 3 through the gearbox pair 4 and 5. The plunger 3 can move relative to plunger Card 1/3 (For Fig. 2 see next card)



•	s/122/61/000/006/007/011		
2-pass cold rolling of tubes	D244/D301		
installing a more powerful pneumatic to prevent flush formation and thus rotation of the tube due to mandrel forward holder should be set up whic turning of 2 tubes simultaneously. is also illustrated. There are 4 fi	rotation should be prevented and a h would ensure gripping and The construction of such a holder		
is also illustrated		/	
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Card 3/3			
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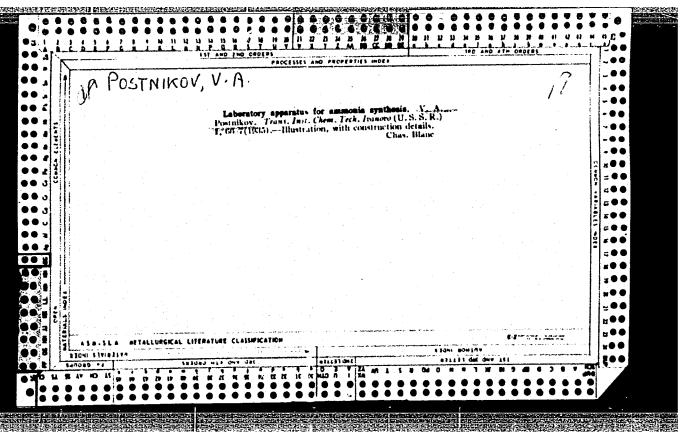
SOKOLOVSKIY, V.I., kand.tekhn.nauk, dotsent; LEVAYNEM, A.G., QDINTSOV, B.P.; GORONKOV, Ye.S., inzh.; POSTNIKOV, V.A.; Prinimali uchastiye: STASEVICH, P.K.; KASIMOV, V.V.; RAYT, Ya. F.

Two-groove cold rolling of pipes. Vest. mash. 41 no.6:50-52
Je '61. (MIRA 14:6)

APPROVED FOR RELEASE: 07/13/2001 CONTINUOUS, V.A.; MATUSEVICH, L.N.

CIA-RDP86-00513R001342620014-8"

Crystallization in a fluidized bed. Khim.prom. no.11:802-805 N :62. (MIRA 16:2) (Crystallization) (Fluidization)



SOKOLOVSKIY, V.I., kand. tekhn. nauk; POSTNIKOV, V.A., inzh.

Experimental investigation of power consumption in cold pipe rolling. Izv. vys. ucheb. zav.; mashinostr. no.1:?12-217 '65.

(MIRA 18:5)

POSTNIKOV, V. A., inzh.

Analyzing the mechanism of mandrel shifting for KhPT mills.

Trudy Ural'. politekh. inst. no.119:67-77 '62.

(MIRA 16:1)

(Pipe mills)

FOSTHIKOV, V. F.

"The Ottaining of PbCl₄, H₂FbCl₆ and (NH₄)₂PbCl₆, and Certain Frozerties of these Compounds," Zhur. Obshch. Khim., 10, No. 14, 1940. Ivanovo Chemico-Technological Inst. Received 9 March 1940.

Report U-1610, 3 Jan. 1952.

POSTNIKOV, V.F.: SPERANSKIY A.I.

"The Obtaining of PBClk, H2PbCl6 and (NHk)2PbCl6, and Certain Properties of these Compounds." Zhur. Cbshch. Khim., 10, No.18, 1940. Ivanovo Chemico-Technological Inst. red. 9 March 1940.

Report U-1610, 3 Jan. 1952.

